

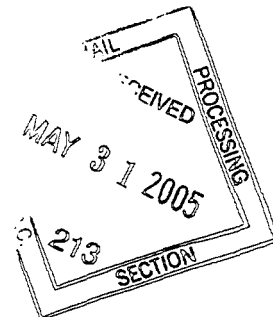


23 May 2005

Securities and Exchange Commission
Judiciary Plaza,
450 Fifth Street,
Washington DC 20549



05008779



SUPPL

Re: Bionomics Limited - File number 82-34682

Please see attached provided pursuant to Section 12g3-2(b) file number 82-34682.

Yours sincerely

A handwritten signature in black ink, appearing to be "Jill Mashado".

Per: Jill Mashado
Company Secretary

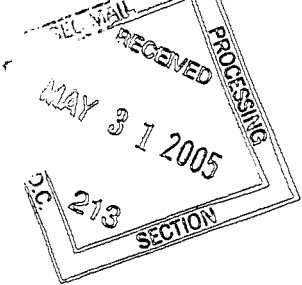
PROCESSED

JUN 09 2005

J. HANSON
FINANCIAL

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82-34682



Bionomics  Limited

ABN 53 075 582 740

ASX REQUEST FOR TRADING HALT
23 May 2005

REQUEST FOR TRADING HALT

Bionomics Limited (ASX:BNO, BNOOA, US OTC:BMICY) requests the ASX impose a Trading Halt on its shares pending an announcement in relation to the Company. Bionomics will make an announcement in relation to this matter prior to the reinstatement of trading in its shares. This is anticipated to be the opening of trading on Wednesday 25 May 2005.

Bionomics is not aware of any reason why the trading halt should not be granted.

Dr Deborah Rathjen
CEO & MANAGING DIRECTOR

FOR FURTHER INFORMATION PLEASE CONTACT:

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MS JILL MASHADO
CFO & COMPANY SECRETARY
BIONOMICS LIMITED
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